GOVERNMENT OF INDIA
AGRICULTURE
LOK SABHA

UNSTARRED QUESTION NO:2237
ANSWERED ON:03.12.2001
DIRECTORATE OF MAIZE RESEARCH PUSA
RAMESH CHAND TOMAR

Will the Minister of AGRICULTURE be pleased to state:

(a) the target fixed and achievements made by Directorate of Maize Research, Pusa, under ICAR, in physical and financial terms, since its inception, year-wise;

(b) the time originally scheduled for completion of the project and the time by which it is expected to the completed now; and

(c) the fate of the employees deployed therein on casual/contract basis after completion of the project?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF AGRICULTURE (SHRI HUKUMDEO NARAYAN YADAV)

(a) The Directorate of Maize Research (DMR) was established in 1994.The objectives of the DMR and its achievements both in physical and financial terms year-wise, since inception, are given in Annexure-I & Annexure-II.

(b) & (c) : The Directorate of Maize Research (DMR) is not a time bound project but a regular plan scheme and its research programmes are approved on plan to plan basis to fulfil its objectives. In addition, the Directorate also implements a number of time bound research projects and staff engaged therein on contract are totally on temporary basis governed by the terms of the contract or the job requirements. The Indian Council of Agricultural Research /Directorate of Maize Research has no liability of any kind for such contractual workers.

Annexure-I

Objectives of the Directorate of Maize Research(DMR)

a) To undertake basic and strategic research activities with respect to germplasm enhancement like tolerance to abiotic and biotic stresses, quality improvement, specialized uses, etc.

b) To co-ordinate interdisciplinary research activities as follows:

i) strategic and applied researches for genetic improvement in yield, quality and resistance to biotic and abiotic stresses.

ii) Development of efficient package of practices for increasing productivity.

iii) Tailoring maize for diversified uses for industry and other sectors.

c) To organize activities related to overall development of maize. For example: training programmes, on-farm researches, frontline demonstrations, etc.

d) To render and undertake consultancy services and programmes on maize research and development for needy agencies/institutions in India or abroad.

e) To develop effective collaborative programmes in maize research and development with national and international agencies/institutions.

Achievements

Since its inception in 1994 the Directorate of Maize Research has released sixteen hybrids and six composites for cultivation in the various agroclimatic zones of the country. These cultivars have helped in increasing the productivity from 1493 kg/ha in 1994 to 1806

kg/ha in 2001. The total production has also increased from 9.1 million tonnes in 1994 to 11.9 million tonnes in 2001, which is a significant increase. Special emphasis was laid on development of nutritionally superior quality protein maize hybrids. Accordingly single cross hybrids Shaktiman-1 and Shaktiman-2 were released. The details of varieties/ hybrids released are placed at Annexure.-II.

Financial Allocation and Expenditure

There was no separate approved allocation during VIII Plan period for the Directorate of Maize Research as this Directorate`s budget was met from the overall allocation of Indian Agricultural Research Institute, New Delhi. The year-wise remittance from the Council to IARI during 1994-95 to 1996-97 in respect of the DMR and expenditure against that remittance under the Directorate during the VII Plan period are given in Table I. The allocation during IX Plan and expenditure, year-wise, are given in Table 2 below:-

Allocation and Expenditure (Rs. in crores)

VIII Plan (Table 1) IX Plan (Table-2)

Year	Remittance from Council	Expenditure	Year	Allocation	Expenditure
1994-95	0.40	0.30	1997-98	1.57	1.57
1995-96	1.44	0.76	1998-99	1.07	1.07
1996-97	2.90+	2.85+	1999-2000	1.17	0.96
+including All India Coordinated Research Project			2000-01	1.26	1.26
			2001-02	2.06(BE)	

Annexure -II

Maize Hybrids released/notified (1994-2001)

S. No.	Name of the hybrid (with parent)	Grain colour and type	Year of rele-	Season	Avg. Yield Kg/h.	Area of adaptation	Source of avail-ability
Full Season Hybrids							
1.	Rajendra hybrid makka-1	White flint	1994	Rabi	4500-5000	Bihar	Dholi/RAU
2.	Rajendra hybrid makka-2	White flint	1996	Rabi	4500-5000	Bihar	Dholi/RAU

3 Paras Orange semi- 1996 Kharif 4500- Ist single cross PAU,Ludhiana
Flint 5000 hybrid released for
Punjab,Delhi, Haryana

4 Dharwad Orange-Yellow 1996 Kharif 4500- Recommended for
Makka-1 flint 5000 Karnataka UAS, Dharwad

Early hybrids

5 DHM 109 Yellow semi- 1994 Kharif 2500- 1, 111,V(irrigated) NSC/ APSSDC/
Flint 3500 A.P., Assam ,Bihar, KSSDC
Gujarat H.P., J&K,
Karnataka

6 Him 1 29 Yellow flint 1997 Kharif 2500- Zone 1 to V (Assam, Almora/NSC
3500 Gujarat, H.P. J&K, M.P.
Rajasthan, U.P., N.E.
States

7. Prakash Yellow flint 1997 Kharif 2500- Recommended across PAU, Ludhiana
3500 The country under rain-
fed conditions suitable
for baby corn.

8. Pusa Early Yellow flint 1997 Kharif 2500- Zone 1V (AP, TN, Maharashtra
Hybrid Makka-1 3500 Karnataka) Zone V Seed

(Rajasthan ,MP,Gujarat)Corporation
performs well at low /NSC
fertilizer levels.

9. Pusa Early Yellow orange 1997 Kharif 2500- Zone IV (AP, TN, Maharashtra
Hybrid Flint 3500 Karnataka), Zone V seed
Makka-2 (Rajasthan, MP, Corporation/
Gujarat) perform NSC
well at low fertilizer
levels

10 Vivek Yellow semi- 1999 Kharif 2500- Rajasthan, Gujarat, V. Lab.
Hybrid-4 Flint 3000 Madhya Pradesh Almora/NSC

11 Prakash Yellow semi- 1997 Kharif 2500- Across the country for
flint 3500 kharif PAU

Maize Composites /QPM hybrids released/notified (1994-2001)

Composites

12 Mahi Yellow-flint 1995 Kharif 2500- Rajasthan, Gujarat, NSC/RAU
Kanchan 3500 Madhya Pradesh

13. Megha Yellow-flint 1994 Kharif 2500- Western UP, Delhi, PAU, Ludhiana
3500 Punjab, Delhi,
Haryana

14	C6	Yellow-flint	1994	Kharif	Jammu & Kashmir	
15.	C8	Yellow-flint	1994	Kharif	Jammu & Kashmir	
16.	C15	Yellow-flint	1994	Kharif	Jammu & Kashmir	

Quality Protein Maize (QPM)

1	Shakti-1	Orange flint with chalky base as well as for Kharif hard endosperm with Normal look will help In providing nutritional Diet to infants/tribals, Etc. as well as to make Industrial products like Balaher	1997	Rabi	Across the Country. Having high lysine and tryptophan maize having	DMR/NSC
2	Shaktiman-1		2001		Bihar and UP	
3	Shaktiman-2		2001		UP	